

Name: _____

Teacher: _____

Algebra Pd: _____

**Homework: Exploring Systems of Linear
Equations via Graphing
(Lesson 2.2)**

Day Month Year

Part One: Multiple Choice:

1. _____ Which system has infinitely many solutions?

- A. $3x - 3y = 3$ and $x - y = 1$
- B. $4x + 2y = 1$ and $2x - y = 2$
- C. $x + y = -1$ and $x - y = 1$
- D. $2x - y = -2$ and $x - 2y = 2$

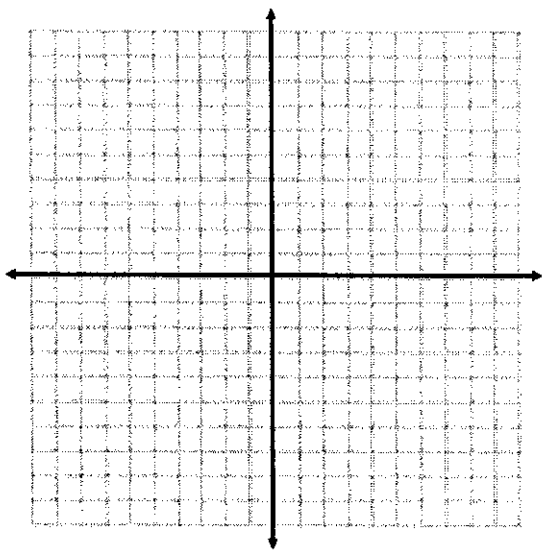
2. _____ Which ordered pair is a solution of the system?

$$\begin{aligned} -2x - 4y &= 2 \\ 6x - 6y &= 48 \end{aligned}$$

- A. (4, -1) B. (5, -3) C. (1, -5) D. (7, -4)

Part Two: Solve each system via graphing. Check via substitution or examining slopes and y-intercepts.

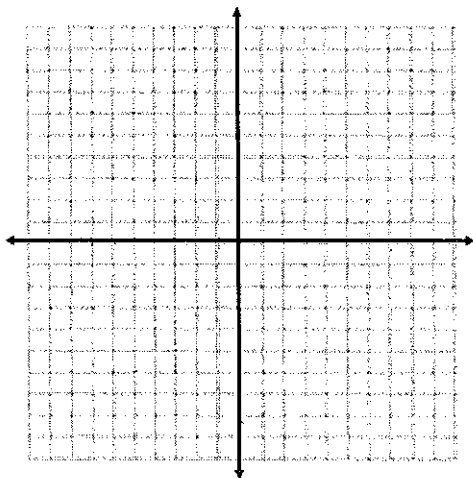
1. $y = 5$ and $x = -3$



Write the solution of the system:

Check:

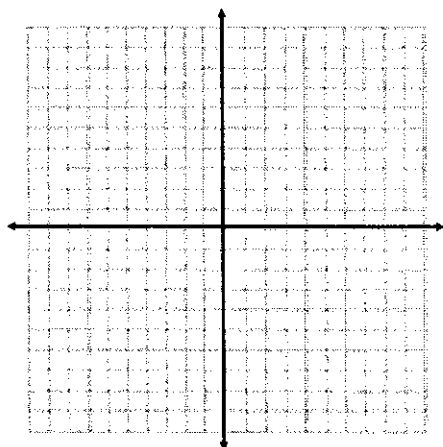
2. $y = x + 8$; $y = x - 3$



Write the solution of the system:

Check:

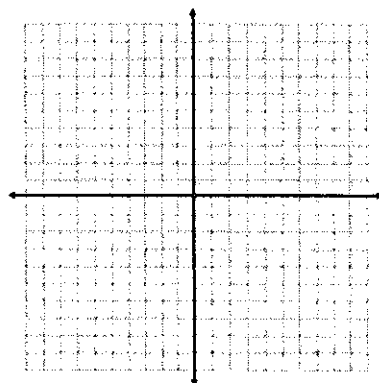
3. $y + 5 = -(x - 3)$ and $y = -x - 2$



Write the solution of the system:

Check:

4. $4x - y = -4$ and $y = x + 7$



Write the solution of the system:

Check: